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L2	56	soft demodulat\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/05/27 09:38
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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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Volume 48, Issue 9, Sept. 2000 Page(s):1499 - 1506
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Tervo, R.;
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Volume 2, 19-21 May 1993 Page(s):419 - 422 vol.2
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Wen Xu; Marke, M.;
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1 [TETRA radio performance evaluated via the software package TETRASIM](#)

Armando Annunziato, Davide Sorbara

 March 2000 **Mobile Networks and Applications**, Volume 5 Issue 1

 Full text available: [pdf\(429.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

TETRA (TERrestrial Trunked Radio) is a digital mobile radio standard for voice and data transmission. It aims at satisfying the growing request of applications and facilities coming from professional users and emergency services. The system has been standardized by ETSI (European Telecommunications Standards Institute) and is provided with an European harmonized frequency band. The first TETRA networks appeared on the market in 1997. This paper reports TETRA radio performance evaluated via ...

2 [An uplink CDMA system architecture with diverse QoS guarantees for heterogeneous traffic](#)

Sunghyun Choi, Kang G. Shin

 October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

 Full text available: [pdf\(408.20 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CDMA systems, QoS guarantees, admission control, automatic retransmission request, multicode CDMA, power control, reed-Solomon/convolutional concatenated code, transmission-rate request access protocol, wireless/mobile communication

3 [A trace-based evaluation of adaptive error correction for a wireless local area network](#)

David A. Eckhardt, Peter Steenkiste

 December 1999 **Mobile Networks and Applications**, Volume 4 Issue 4

 Full text available: [pdf\(243.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless transmissions are highly susceptible to noise and interference. As a result, the error characteristics of a wireless link may vary widely depending on environmental factors such as location of the communicating systems and activity of competing radiation sources, making error control a difficult task. In this paper we evaluate error control strategies for a wireless LAN. Based on low-level packet traces of WaveLAN, we first show that forward error correction (FEC) is effective in r ...

4 Predictability requirements of a soft modem

Michael B. Jones, Stefan Saroiu

June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 29 Issue 1

Full text available:  [pdf\(1.53 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Soft Modems use the main processor to execute modem functions traditionally performed by hardware on the modem card. To function correctly, soft modems require that ongoing signal processing computations be performed on the host CPU in a timely manner. Thus, signal processing is a commonly occurring background real-time application---one running on systems that were not designed to support predictable real-time execution. This paper presents a detailed study of the performance characteris ...

Keywords: CPU scheduling, Rialto, Rialto/NT, Windows 2000, Windows NT, open real-time system, real-time, signal processing, soft devices, soft modem

5 Error control for data communication

Andrew J. Viterbi

January 1976 **ACM SIGCOMM Computer Communication Review**, Volume 6 Issue 1

Full text available:  [pdf\(530.10 KB\)](#)

Additional Information: [full citation](#)

6 Issues in satellite personal communication systems

Erich Lutz

February 1998 **Wireless Networks**, Volume 4 Issue 2

Full text available:  [pdf\(742.57 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the paper various issues in personal satellite communications are addressed. Basic geostationary and non-geostationary satellite constellations are considered. The narrowband and wideband characterization of the mobile satellite channel and related system implications are discussed. Satellite diversity is presented as a measure to overcome signal shadowing. The capacity of TDMA and CDMA multiple access is estimated, taking into account co-channel interference. Various network issues, suc ...

7 Real-time multi-tasking in software synthesis for information processing systems

Filip Thoen, Marco Cornero, Gert Goossens, Hugo De Man

September 1995 **Proceedings of the 8th international symposium on System synthesis**

Full text available:  [pdf\(170.52 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Abstract: Software synthesis is a new approach which focuses on the support of embedded systems without the use of operating systems. Compared to traditional design practices, a better utilization of the available time and hardware resources can be achieved, because the static information provided by the system specification is fully exploited and an application-specific solution is automatically generated. On-going research on a software synthesis approach for real-time information processing s ...

Keywords: automatic processor mapping, automatically generated application-specific solution, computer aided software engineering, concurrency control, concurrent process system specification, embedded systems, flexible execution models, hardware resource utilization, information processing systems, internal representation model, mobile satellite communication, multiprocessing programs, personal terminal receiver demodulator,

processor scheduling, real-time multi-tasking, real-time systems, software synthesis, static information, time utilization, timing constraints

8 Software synthesis for real-time information processing systems

Filip Thoen, Marco Cornero, Gert Goossens, Hugo De Man

November 1995 **ACM SIGPLAN Notices**, **Proceedings of the ACM SIGPLAN 1995**

workshop on Languages, compilers, & tools for real-time systems,

Volume 30 Issue 11

Full text available:  [pdf\(941.82 KB\)](#)

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Software synthesis is a new approach which focuses on the support of embedded systems without the use of operating-systems. Compared to traditional design practices, a better utilization of the available time and hardware resources can be achieved with software synthesis, because the static information provided by the system specification is fully exploited and a application specific solution is automatically generated. In this paper on-going research on a software synthesis approach for real-time ...

9 Application of Signal Processing WorkSystem simulation to interference analysis

Z. Graber, M. Williams, J. Correia, S. Smith, Y. Gonzalez

December 1993 **Proceedings of the 25th conference on Winter simulation**

Full text available:  [pdf\(174.68 KB\)](#)

Additional Information: [full citation](#), [references](#)

10 Signal design and system operation of Globalstar versus IS-95 CDMA—similarities and differences

Leonard Schiff, A. Chockalingam

January 2000 **Wireless Networks**, Volume 6 Issue 1

Full text available:  [pdf\(273.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The GlobalstarTM system provides telephone and data services to and from mobile and fixed users in the area between ± 70 degrees latitude. Connection between user terminals and the PSTN is established through fixed terrestrial gateways via a constellation of low earth orbiting (LEO) satellites. Globalstar uses an extension of the IS-95 CDMA standard that is used in terrestrial digital cellular systems. The LEO satellite link is ...

11 Reconfigurable Signal Processing in Wireless Terminals

Jurgen Helmschmidt, Eberhard Schuler, Prashant Rao, Sergio Rossi, Serge di Matteo, Rainer Bonitz

March 2003 **Proceedings of the conference on Design, Automation and Test in Europe: Designers' Forum - Volume 2**

Full text available:  [pdf\(399.68 KB\)](#)

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In this paper, we show the necessity of reconfigurable hardware for data and signal processing in wireless mobile terminals. We first identify the key processing power requirements for realizing a third generation wireless mobile terminal with multi-link and multi-standard capabilities. This is done on the basis of two world applications: a flexible mobile rake receiver for UMTS/W-CDMA and an OFDM decoder for high-speed wireless LAN protocols. We present a software-defined concept and a system i ...

12 Practical experiences in interconnecting LANs via satellite

Nedo Celandroni, Erina Ferro, Francesco Potorti, Alessandro Bellini, Franco Pirri

October 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 5

Full text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


We present an experiment in interconnecting LANs via a satellite link and describe the individual components involved in the experiment. The project was developed in two phases: a) design and realisation of a satellite access scheme that supports real-time and non real-time traffic with a signal fading countermeasure, called FODA/IBEA-TDMA; b) interconnection of LANs where real-time and non real-time applications run. The experiment was presented the first time in June 1994 as a demo in which th ...

Keywords: TDMA fade countermeasure, satellite, satellite LAN interconnection, satellite videoconference

13 [Ada in an on-board military communication system](#)

Victor D. Albertini, Craig J. Berrett

November 1998 **ACM SIGAda Ada Letters , Proceedings of the 1998 annual ACM SIGAda international conference on Ada**, Volume XVIII Issue 6

Full text available:  [pdf\(350.56 KB\)](#) Additional Information: [full citation](#), [index terms](#)

Keywords: Ada, hardware to software mapping, modular software

14 [Performance analysis of communication systems formally specified in SDL](#)

Martin Steppler


October 1998 **Proceedings of the first international workshop on Software and performance**

Full text available:  [pdf\(2.27 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

15 [Computer communications: network devices and functions](#)

W. Chou, P. McGregor

January 1976 **ACM SIGCOMM Computer Communication Review**, Volume 6 Issue 1

Full text available:  [pdf\(968.21 KB\)](#) Additional Information: [full citation](#)

16 [An overview of the centre for telecommunications research at King's College, London, England](#)

Hamid Aghwami, Dilshan Weerakoon

April 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 2

Full text available:  [pdf\(506.45 KB\)](#) Additional Information: [full citation](#), [index terms](#)

17 [Performance evaluation for a quasi-synchronous packet radio network \(QSPNET\)](#)

Ayan Banerjee, Ronald A. Iltis, Emmanouel A. Varvarigos

October 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5

Full text available:  [pdf\(299.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new media-access and connection-establishment protocol for an *ad-hoc* quasi-synchronous packet radio network (QSPNET). In the QSPNET, the bandwidth is partitioned into a data channel, used to transmit packets, and a control channel, used to make reservations. Transmitted wave-forms in the QSPNET are made quasi-synchronous by

using a local GPS clock. The QSPNET uses a novel linear decorrelator receiver for multiuser detection, which permits the reception of quasi-synchronous co ...

Keywords: *Ad hoc* packet radio networks, quasi-synchronous CDMA, tell-and-go protocol

18 Audit considerations in distributed processing systems

James V. Hansen

August 1983 **Communications of the ACM**, Volume 26 Issue 8

Full text available:  [pdf\(856.83 KB\)](#)

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Applications of distributed processing networks are proliferating rapidly. It is expected that by the year 2000, distributed networks will be one of the most significant developments to evolve from the computer revolution. Distributed networks are unique in that they bring together concepts of communication, engineering, and computing. From an audit standpoint, the complexities involved in control design and testing are challenging. The auditor needs to b ...

19 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Full text available:  [pdf\(276.88 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuating link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

20 Network and single user performance evaluation of a mobile data system over flat fading transmission channels

Piero Castoldi, Gianni Immovilli, Maria Luisa Merani

February 1995 **Wireless Networks**, Volume 1 Issue 1

Full text available:  [pdf\(1.04 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper the contrasting effects of transmission impairments and capture on both the network and single user performance of a slotted Aloha system are investigated in a mobile radio environment, accounting for frequency non-selective random propagation phenomena, and employing the packet error probability in order to define packet losses and capture. With this study we demonstrate that it is possible to generalize in a real propagation context a method previously proposed in literature ...

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